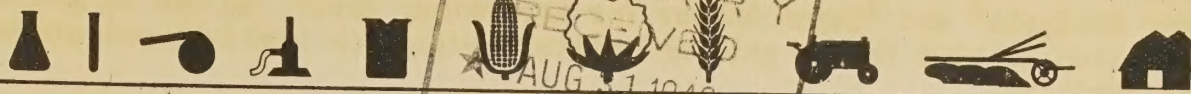


news letter

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August, 1940

No. 2

DR. BROWNE RETIRES

Dr. C. A. Browne, Supervisor of Chemical Research of the Bureau and internationally known agricultural research chemist, sugar analyst and technologist, and historian of science, was presented with a silver service by his friends in the Department on August 12 when he retired from active service. In his presentation speech Dr. Knight spoke of the changes, particularly in the scientific world, which had taken place during Dr. Browne's long career as a chemist.

Dr. Browne was born at North Adams, Mass., a descendant of John and Priscilla Alden. He received the degree of B.A. in 1892 and M.A. in 1896 from Williams College, Williamstown, Mass. In 1892 he began his professional career as an analytical chemist in the laboratory of John S. Adriance of New York City. In 1895 he went to the Pennsylvania State College as instructor in chemistry and in 1896 was appointed Assistant Chemist of the Pennsylvania Agricultural Experiment Station. From 1900 to 1901 Dr. Browne was a post graduate student at Gottingen University where he received the degree of Ph.D. On returning to the United States he accepted an appointment as research chemist for the Louisiana Sugar Experiment Station, New Orleans. He came to the Bureau of Chemistry in 1906 as Chief of the Sugar Laboratory and left that position in 1907 to accept appointment as Chemist in Charge of the New York Sugar Trade Laboratory, New York City. In 1923 he became Chief of the Bureau of Chemistry, succeeding Dr. C. L. Alsberg. When the Bureau of Chemistry and Soils was organized in 1927 Dr. Browne headed the Chemical and Technological Research Unit and also served as Assistant Chief of the new Bureau until 1935 when he was appointed Supervisor of Chemical Research.

Although Dr. Browne is perhaps best known for his work on the chemistry of sugar, his list of writings, including more than 300 papers, books, and pamphlets, shows activity in various other fields of agricultural chemistry and an interest in many cultural subjects. Among his recent papers are the following: "The Role of Refugees in the History of American Science," "Historical Observations during a Recent Chemical Trip to Europe," "Origins of Agricultural Chemistry as a Science", Baltimore's Leadership in the First National Convention of American

Chemists at New York, Oct. 26, 1831." He is the author of "Handbook of Sugar Analysis" and "Sugar Tables for Laboratory Use." At the St Louis Exposition in 1904 he won gold and silver medals for agricultural chemical exhibits.

Secretary Wallace, in commenting on Dr. Browne's retirement, said: "Dr. Browne has contributed much to technology and to his whole profession and has been an inspiration to his associates. He is one of the great agricultural chemists, a first rate scholar, and above all a fine man."

Dr. Browne will continue to work with the Department as a collaborator.

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NORTHERN REGIONAL RESEARCH LABORATORY

Dr. George E. Ward has been appointed Senior Chemist in charge of the Survey and Development Section of the Fermentation Division. He and his group at Arlington will be transferred to Peoria in the early fall.

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Dr. B.B. Bayles of the Bureau of Plant Industry conferred with J.H. Shollenberger regarding the needs of the laboratory for grain and agricultural residues for this season's work.

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In July Dr. E.C. Lathrop and Mr. Shollenberger witnessed field demonstrations in Indiana and Illinois of small pick-up straw balers, and collected samples of straw. Samples of straw from combine-harvesters were also collected on several Illinois farms.

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On July 30 Dr. O.E. May and Mr. Shollenberger attended the hearings on the promulgation of official standards for soybeans held at the Peoria Board of Trade, Peoria, Ill., by the Grain and Seed Division of the U.S. Agricultural Marketing Service.

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Arnold P. Yerkes, Editor of "Tractor Farming," International Harvester Company, called on Dr. E.C. Lathrop to discuss problems and equipment in connection with the collection of agricultural residues.

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H. T. Herrick and R.B. Gray, while in Peoria early in August, discussed with Dr. May and Dr. Lathrop the general status of and plans for a farm equipment program dealing with the collection of agricultural residues.

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John J. Curtis conferred with elevator operators in central Illinois early in August regarding the quantity of corn cobs resulting from their shelling operations, the disposition made of them, and other matters relating to the collection of agricultural residues.

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Director O.E. May and family took up their residence in Peoria on June 28.

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Dr. William J. Sparks, Chief of the Oil and Protein Division, left the Government service recently and returned to Elizabeth, N.J., to re-enter the employ of the Standard Oil Company.

Dr. David J. Price, Office of the Chief (Regional Research Laboratories) was in Peoria August 13 and 14 conducting an investigation of the fire that occurred on August 10 in the attic of the Laboratory, which is still under construction. Harry E. Roethe assisted in certain phases of the investigation.

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As a result of a recent change in administrative set-up, the Agricultural Byproducts Laboratory at Ames, Iowa, now reports as a part of the Agricultural Residues Division of the Northern Laboratory.

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New members of the staff who have recently taken up residence in Peoria are Charles G. Burrows, Assistant Mechanical Engineer, Jesse R. Dilley, Associate Mechanical Engineer, and P. Burke Jacobs, Senior Chemical Engineer, Agricultural Motor Fuels Division; John J. Curtis, Assistant Agricultural Technologist, Commodity Development Division; Dr. John C. Cowan, Associate Chemist, and R. Park Newton, Jr., Assistant Chemist, Oil and Protein Division; Dr. G.E. Hilbert, Chief, Carl E. Rist, Associate Chemist, Dr. Charles L. Mehltretter, Associate Chemist, and Dr. Roy L. Whistler, Associate Chemist, Starch and Dextrose Division; Miss Florence M. Cloyd, Junior Clerk-Stenographer; and Harry E. Roethe, Technical Assistant to the Director.

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ENZYME RESEARCH LABORATORY

Dr. Gertrude Gottschall spent the week of August 12 at the Marine Biological Laboratory, Woods Hole, Mass. While there she conferred with many of the well-known biochemists who spend part of the summer at the Woods Hole Laboratory. In the interest of the low temperature enzyme studies, she collected a quantity of desirable marine material for comparison with material from warm-blooded species.

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This month Sigmund Schwimmer completed the requirements for the degree of Bachelor of Science from George Washington University. His degree will be conferred at the next University Convocation.

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Among the notable visitors at the Laboratory recently were Dr. O. C. Magistad, formerly Director of the Hawaiian Agricultural Experiment Station, now an official in the Bureau of Plant Industry; Dr. F.A. Dunlap of Chicago, well known consultant in Cereal Chemistry, and Mr. Clegg of the National Cannery Association.

* * *

FARM STRUCTURES RESEARCH

Wallace Ashby visited most of the projects of the Division on a trip beginning June 25, first going to Urbana, Ill., where he discussed the progress of the corn-storage and wheat-storage projects in Illinois with Professors E. W. Lehmann and W.A. Foster of the University and Thayer Cleaver of this Division. He inspected a new type of ventilating device developed by the Bureau and installed on a farm near Urbana.

At Madison, Wis., the project on farm housing was discussed with C.L. Christenson, Director of the Wisconsin Agricultural Experiment Station, and Associate Director of Extension W.W. Clark, Professors F.W. Duffee, S.A. Witzell, and M.J. LaRock of the Department of Agricultural Engineering, and Otto E. Brunkow of this Division. Homes of several farmers cooperating in this project were visited.

At St. Paul, Mr. Ashby discussed the farm building situation with Extension Director P.E. Miller, Prof. A.J. Schwantes and Prof. Boss of the Department of Agricultural Engineering, and L.W. Rees of the Forestry Department, and Dr. Raphael Zon and Messrs. E.F. White and R. N. Cunningham of the Forest Service. There was considerable interest in the use of native lumber for construction of farm buildings in the wooded sections of Minnesota.

At Fargo, N.Dak., he discussed the potato storage project with Messrs. T.E. Long and W.J. Promersberger of the Agricultural Engineering Department and Extension Director E.J. Haslerud, and made a trip from Fargo to Grand Forks and vicinity with Dean H.L. Walster and M.G. Cropsey to visit potato storages of cooperating farmers. Considerable progress has been made toward a solution of potato storage problems in that State, but a good deal of work remains to be done. The scope of the investigation for the coming year is to be increased and Mr. Long will devote half his time to this work.

At Ames, Iowa, he discussed the work on corn storage with Dr. H. J. Barre and Prof. J.B. Davidson, and examined several steel corn cribs and grain bins that had been submitted for tests by manufacturers.

At Lincoln, Nebr., Mr. Ashby met Prof. E.E. Brackett, head of the Department of Agricultural Engineering, and newly elected president of the American Society of Agricultural Engineers. They drove to Scottsbluff, where A.D. Edgar of this Bureau is conducting studies of potato storage in cooperation with the University of Nebraska and potato growers in the vicinity. Enroute from Lincoln, they visited the North Platte Experiment Station of the University of Nebraska, and the new dam being constructed across the South Platte River at Ogallala, Nebr. This is one of the largest earth dams in the world and is to store water for irrigation in the Platte valley. At Scottsbluff he discussed the potato storage work with Prof. Brackett and Prof. H.O. Werner of the Horticulture Department, and visited the storages of a number of cooperating growers.

At Hays, Kans., Prof. F.C. Fenton of Kansas State College, L.C. Aicher, Superintendent of the Ft. Hay Experiment Station met with W. O. Swanson and Mr. Ashby and reviewed the work being done on wheat and grain sorghum storage. They gave special attention to a bin with perforated walls through which water had penetrated in a recent rain causing some spoilage of wheat. Following the visit at Hays, Mr. Swanson and Mr. Ashby drove to points between Hutchinson and Wichita, Kans., to inspect installa-

tions of ventilating devices in bins of cooperating farmers. They returned to Hays by way of Jetmore, Kans., to inspect a number of native stone buildings erected by farmers, largely with their own labor. They saw several basement houses which the owners thought were more comfortable than houses above the ground. They were not satisfied with the appearance of the basement houses and another objection was that they could not see out of the windows readily.

After leaving Hays, Mr. Ashby visited the LaForge project of the Farm Security Administration near Sikeston, Mo., where Mr. Kinder and Miss Gissall took him to a number of farms in the area to see prefabricated houses built at a cost of approximately \$1,100. Most of these houses are 20 x 32 feet in size, with 3 bedrooms, a living room, kitchen and screened work porch, and seem quite satisfactory although some of the occupants would like to enlarge the kitchens. Small outside root houses are provided, but storage of fruits and vegetables is still a problem because of early harvest of the vegetable crop and the long storage period, including considerable warm weather. One of the new "scattered labor homes" was also visited. This is a 4-room house 20 x 26 feet costing \$499. Economy has been effected by the use of 7-foot ceilings and omission of part of the interior finish.

At Athens, Ga., the 8 experimental houses used in the farmhouse convenience and comfort studies were visited and the work discussed with Prof. R.H. Driftmier and F.B. Lenham of the University and J.W. Simons and A.C. Hudson of this Bureau. F. J. Hallauer of the Forest Service met Mr. Ashby at Athens and with Messrs Simons and Hudson they drove to Greensboro, Ga., where they met Messrs Downs and Thomas of the Farm Security Administration. Near Greensboro they visited farms of a number of tenant-purchase and rehabilitation clients. In this area most of the farm building was being done with lumber cut in the country. Several tenant houses were being repaired and improved by the occupants. This was made possible through long term leases arranged by the F.S.A., the landlord using advance rent to provide materials and some labor for rehabilitating the houses and other buildings. In spite of the fact that agriculture in Green County had been hard hit by the boll weevil and emigration of much of the farm population, there is at present, due to the work of the F.S.A., more building activity in this area than any other visited on this trip.

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Dr. Jorge Ancizar-Sordo, of Columbia, South America, called at this office to request copies of farm building plan books for the western and southern states. He was much interested in types of farm building used in the United States and thought that some of them would be useful in his country. Dr. Ancizar-Sordo says there is now much interest in low-cost housing in Colombia.

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Mr. Ashby and F.J. Hallauer of the Forest Service are joint authors of a paper "A Program for Rehabilitating Farm Buildings."

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Mr. Ashby presented a report of the work of the Bureau related to rural housing at the Rural Housing Get-together on August 5 under the auspices of the committee on rural housing of the Central Housing Committee. Director M. L. Wilson of the Extension Service is chairman of this Committee.

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J. R. Dodge prepared an article entitled "Farmhouse Research in Wisconsin" which appeared in the August 1940 issue of Extension Service Review. He also prepared an article on "One Hundred Years of Farm Housing" to appear in the November issue of Southern Planter.

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A. H. Senner prepared a paper on "Prevention of Frost Damage" which was presented before the Kiwanis Club at Towson, Md., on August 21.

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J. R. McCalmont returned from New Jersey where a study of silo pressures is in progress. Several silos have been filled with alfalfa and other grass crops and outward pressures of 1,200 pounds per square foot were registered on a wall panel 41 feet below the top of the silage. These pressures are approximately 50 percent greater than any pressures measured heretofore and about 200 percent greater than pressures found in silos filled with normal corn silage. It was also discovered that low-moisture grass silage exerts little if any more pressure than corn silage.

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Messrs. M.A.R. Kelley, W.V. Hukill, W.R. Swanson, J.R. McCalmont and Wallace Ashby attended the annual meeting of the American Society of Agricultural Engineers held at State College, Pa., on June 17-20. Mr. Kelley presented a paper, "Progress Report of Studies on Artificial Lighting of Dairy Stables," before the Rural Electrification Division. Mr. Ashby, as vice-chairman, presided at one of the sessions of the Structures Division and will be chairman of this division next year.

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Dr. H. J. Barre of the Ames Station spent a week in the Washington office assisting in the preparation of specifications for steel grain bins for the Commodity Credit Corporation for use if shelled corn is again stored under the ever-normal granary program. The tentative specifications were discussed at a meeting with representatives of the Commodity Credit Corporation, the Technical Advisory Board, and representatives of steel producers having offices in Washington.

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NAVAL STORES RESEARCH

C. F. Speh traveled to various points in Georgia and Florida from August 7 to 14, during which time he attended the meeting of the Southeastern Section of the Society of American Foresters, at Tifton, Ga. Mr. Speh made an informal talk at this meeting about changes in the naval stores industry. He also visited the Naval Stores Station at Olustee, Fla.

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G. P. Shingler, Senior Chemist in Charge of the Naval Stores Station, Olustee, Fla., visited the Washington laboratories from July 22 to 27, for conferences regarding the work of the Station for the current fiscal year.

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RURAL ELECTRIFICATION RESEARCH

Harry L. Garver was in Blacksburg, Va., on July 18 where he discussed problems concerning cooperative investigations with John W. Weaver and Prof. Charles E. Seitz of the Virginia Polytechnic Institute. The following two days were spent in visiting hay drying and irrigation installations and in inspecting the work which cooperating farmers and egg graders and packers in the Shenandoah valley are doing.

Mr. Weaver was given a Bureau probationary appointment as associate agricultural engineer on July 16 and will have his headquarters at Blacksburg, where he has been stationed as a cooperating agent for nearly a year.

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FARM MECHANICAL EQUIPMENT RESEARCH

R. B. Gray visited Auburn, Ala. and Laurel, Miss., the latter part of July where he conferred with staff members on crop production machinery. On August 2 he conferred with members of the Northern Regional Research Laboratory at Peoria, Ill., in connection with crop-residue-collecting machinery. Later he inspected the work on corn machinery at Ames, Iowa, returning to Washington by way of Toledo, Ohio, where he took up matters relating to disease- and pest-control machinery.

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Among the visitors at the sugar beet machinery project at Davis, Calif., during the past month were Frank I. Guilford, factory representative of the Oxnard, California Works of the Allis-Chalmers Manufacturing Company; Mr. Mowbray of the British Sugar Corporation, England; N.R. McCreery, Manager of the Colorado District of the Great Western Sugar Company, Denver; and C. T. Rasmussen, Chief Engineer of the John Deere Wagon Works of Moline, Ill.

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W. H. Redit recently made a trip to inspect the fertilizer-placement experiments in North Carolina, Virginia and the Eastern Shore of Maryland. The crops included in these experiments are cotton, tobacco, corn, peanuts, sweetpotatoes, tomatoes, and cantaloupes. Some damage from the drouth during July was noted on practically all these crops except the cotton and peanuts. While in Rocky Mount, N.C., he attended the annual field day at the Upper Coastal Plains Experiment Station and conferred with Dr. E.R. Collins on the coming placement work with strawberries. He also conferred with E.T. Batten, Holland, Va., and C.E. Phillips, Jr. at Bethel, Del., on the progress of this year's work.

On August 13 Mr. Redit took one of the special experimental transplanters to Geneva, N.Y., to be exhibited at the annual Cannons Field Day.

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W. R. Humphries who returned August 2 from grass silage studies in New Jersey, said the forage crops for silage in that section are good this year. Two commercial companies had experimental harvester-choppers in the field this year with the indication that additional companies will be represented next year.

D. B. Eldredge reports the completion of work on widening a riding cultivator to a 6-foot tread and the mounting on it of special top-delivery fertilizer hoppers. This machine is to be used in fertilizer-placement experiments on tomatoes. The work was done in the fertilizer distributing machinery project at the Arlington Farm Laboratory and shop.

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PROCESSING OF FARM PRODUCTS RESEARCH

Fiber Flax Investigations:

G. A. Cumings of the Farm Mechanical Equipment Division was a recent visitor at the Fiber Flax Machinery laboratory at Corvallis, Ore.

The 1940 harvest season began early in July with prospects for an average per acre yield. The early planting is good, but the late flax is almost a failure in some localities due to lack of rain in June.

Experimental deseeders have been installed in each of the three farm cooperative plants for observation in deseeding the 1940 crop. Two experimental pullers have also been put in operation.

Cotton Ginning Investigations:

C. A. Bennett recently returned from a short furlough during which he had the opportunity to observe a number of the latest designs of combines operating in Illinois.

On July 17 Thomas L. Baggette addressed a group at a cotton classing school at Memphis, Tenn., on the "Improvements Needed in Cotton Gins." The Cotton Ginning Laboratory participates annually in a number of these schools.

On August 7 the Cotton Ginning Laboratory was host to a visiting delegation of 12 farmers and ginners from Chicot County, Arkansas, under the leadership of County Agent Mountcastle and 5 farmer-ginners from near Montgomery, Ala., under the leadership of A.J. McLemore.

On Tuesday, August 13, the Mississippi Delta Branch Experiment Station of Mississippi, cooperating with several Bureaus of the U.S. Department of Agriculture, was the host to a group of approximately 2,000 agriculturists who had come to participate in the Delta Day annual activities. The program included visits to the different works of the Bureau in its Cotton Ginning Laboratory and to the work in the fiber laboratory, being cooperatively run by the Agricultural Marketing Service. Principal speakers were Ben J. Williams of New Orleans, Dr. C.T. Murchison of the Cotton Textile Institute, and Hon. Oscar Johnston, President of

the National Cotton Council. Among the items which were viewed with considerable interest by the visitors at the Cotton Ginning Laboratory were a century old steam engine which was loaned to the Bureau by the Blakely plantation from its original site near Vicksburg, Miss., and the new standard-density cotton press which has been installed in the packaging laboratory.

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R.C. Young and R.G. McWhirter are engaged on special construction work in connection with the forthcoming ginning program.

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Lieutenants Thomas L. Baggette and Thomas B. Prewitt of the ginning staff are now at National Guard camp. The time of their return to the laboratory is rather indefinite.

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Interesting cooperative work is again underway between the Ginning Laboratory and farming cooperators such as the Delta and Pine Land Company, Scott, Miss.; Dockery Estate, Dockery, Miss.; Stovall Estate, Stovall, Miss.; and the King and Anderson ginning organization and plantation in the Clarksdale, Miss., region. At each of these plantations the Laboratory has a number of experimental cotton-handling set-ups including driers, fans, special blow boxes and the like.

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Packaging Project:

On July 13 V. L. Stedronsky, leader of the packaging project, began a trip with representatives of the Extension Service of Georgia to visit a number of groups of farmer-ginners in Georgia to discuss current ginning problems with them. Meetings were held at Soperton, Jesup, Moultrie, Donaldsonville, Cuthbert, and Cordele. Following these meetings J.B. Wilson, Cotton Ginning Specialist from Alabama, conducted Mr. Stedronsky to one or two of the gins near Auburn, Ala., having special ginning problems. One conclusion resulting from the trip was that interest in the problems of pressing and packaging is increasing.

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The new standard-density press has now been installed for use during the coming ginning and packaging season, but the difficulty in limbering up the rams and overcoming some leaks which appeared in one of the cylinders has delayed the final ginning tests preparatory to putting the press in actual service. This triple-ram press was purchased by the Bureau with Bankhead-Jones funds and is a standard all-steel press. It has some interesting features, including hot-rolled iron slab bottom and top sills, a standard steel cotton box and a press box which tapers outward at the top to reduce pressures which may arise when 4,000 or more pounds hydraulic pressure per square inch is applied on the rams. The press is equipped with a standard steel tramper and condenser customarily used in cotton gins, and its operation will probably be watched with considerable interest by a large number of people in the industry. Ben J. Williams, principal speaker in the Delta Day program on August 13 was an interested visitor to the packaging laboratory.

PUBLICATIONS APPEARING OUTSIDE THE DEPARTMENT
OR MIMEOGRAPHED

- ARONOVSKY, S. I. and DRYDEN, E. C. Chemical and physico-chemical relationships of pulps. Paper Indus. and Paper World 22(3): 253-256, June 1940.
- BALLS, A. K., and HALE, W. S. The effect of ethylene on freshly harvested wheat. Cereal Chemistry, vol. 17, no. 4. pp. 490-494, July, 1940.
- THOMPSON, R.R., and JONES, W.W. Crude papain. Ind. Eng. Chem., vol. 32, no. 8, pp. 1144-1147, August, 1940.
- BARRE, H. J. Results of research in corn storage. Agr. Engin. Jour. 21(6): 219-222, June, 1940.
- BENNETT, C.A. (With F.L. GERDES, Agr. Marketing Service) Research in high density packing at gins. Cotton and Cotton Oil Press 41(15): 5-6, June 20, 1940.
- Preliminary report 1939-1940. Cotton Ginner's Jour. 11(10): 7, 13, 16, July 1940.
- BICKFORD, W. G., ANDERSON, S., and MARKLEY, K. S. The stability of vegetable oils. I. The spectral transmittance of soybean oils. Oil and Soap 17(7): 138-143, July 1940.
- BROTHER, G. H., AND McKINNEY, L. L. Protein plastics from soybean products. Influence of phenolic resins or phenolic molding compounds on formaldehyde-hardened protein material. Indus. and Engr. Chem. 32(7): 1002-1006, July 1940.
- DeEDS, F., WILSON, R. H., and THOMAS, J. O. Photosensitization by phenothiazine. Jour. Amer. Med. Assoc. 114: 2095-2097, May 25, 1940.
- ETCHELLS, J. L., AND GORESLINE, H. E. Methods of examination of fresh cucumber pickle. Fruit Prods. Jour. 19(11): 331-335, July 1940.
- FREY, R. W., and BEEBE, C. W. The permanence to acid deterioration of vegetable leather retanned with alum. Jour Amer. Leather Chemists Assoc. 35(7): 440-443, July 1940.
- GASTROCK, E. A. and MARKLEY, K. S. The cottonseed industry and the southern regional laboratory. Oil Mill Gazetteer pp. 29-31, June 1940.
- HEDDEN, O. K. (With C. R. NEISWANDER, Ohio Agr. Expt. Sta.) Equipment for burning sulfur in empty greenhouses and in mushroom houses for the destruction of mites and insects. Bimonthly Bul. Ohio Agr. Expt. Sta. 25(204): 63-72, May-June 1940.
- HIGH, H. D. A study of cost of production of naval stores. ACE-59, July 1940.
- JAMIESON, G. S. and ROSE, W. G. Cocos pulposa palm kernel oil. Oil and Soap 17(7): 144, July 1940.
- NAGEL, R. H. Combined support and water supply for condensers. Chemist Analyst 29(2): 44-45, May 1940.
- RADER, L. F., JR., ZAHN, K. V., and WHITTAKER, C. W. Comparison of chemical methods for estimating the availability of magnesium. Jour. Assoc. of Official Agr. Chemists 23(2): 404-411, May 1940.
- RIEMENSCHNEIDER, R. W., SWIFT, C. E., and SANDO, C. E. Molecular distillation and low temperature crystallization of cottonseed oil and the stability of the molecularly distilled fractions. Oil and Soap 17(7): 145-148, July 1940.
- ROSS, W.H. and RADER, L.F., JR. Report on phosphoric acid. Jour. Assoc. of Official Agr. Chemists 23(2): 234-242, May 1940.

SPIES, J. R., COULSON, E. J., BERNTON, H. S., and STEVENS, H. The chemistry of allergens. II. Isolation and properties of an active protein component of cottonseed. Jour. Amer. Chem. Soc. 62: 1420-1423, 1940.

STUART, L. S., and FREY, R. W. Some aspects of humidity control in the storage of salt-cured calfskins. Jour. Amer. Leather Chemists Assoc. 35(7): 432-439, July 1940.

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CHANGES IN PERSONNEL

Recent Appointments - Indefinite or Probationary

Mrs. Ella J. Winn	Jr. Clerk-Stenog. (Stoneville, Miss.)	Cotton Gin. Invs.				
Robert M. Baker	Asst. Mechanical Engr. (Wyndmoor, Pa.)	East. Reg. Res. Lab.				
Marguerite E. Diamond	Jr. Clerk-Stenog. (Wyndmoor, Pa.)	"	"	"	"	"
Elsie E. Hamilton	Under Clerk-Typist (Wyndmoor, Pa.)	"	"	"	"	"
Paul K. Knierim	Jr. Clerk-Stenog. (Wyndmoor, Pa.)	"	"	"	"	"
Clark Wallace Marshall	Asst. Clerk (Purchase) (Wyndmoor, Pa.)	"	"	"	"	"
William J. Milligan	Sr. Operating Engr. (Wyndmoor, Pa.)	"	"	"	"	"
Wesley Williams	Sr. Steamfitter and Pipefitter (Wyndmoor, Pa.)	"	"	"	"	"
Florence M. Cloyd	Jr. Clerk-Stenog. (Peoria, Ill.)	North.	"	"	"	"
John J. Curtis	Asst. Agr. Technologist (Peoria, Ill.)	"	"	"	"	"
John C. Cowan	Assoc. Chemist (Peoria, Ill.)	"	"	"	"	"
Philip L. Blake	Mech. Engr. (Albany, Calif.)	West.	"	"	"	"
David F. Houston	Assoc. Chemist (Albany, Calif.)	"	"	"	"	"
Lou V. Brennan	Jr. Clerk-Stenog.	Reg. Res. Lab (Adm.)				
Doris D. Alcock	Jr. Typist (Ames, Iowa.)	Structures				
Mrs. Marion P. Pigford	Sr. Clerk-Stenog. (Urbana, Ill.)	Reg. Soybean Lab.				

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Recent Appointments - Temporary

Henry Thomas Lisante	Engineering Inspector (Auburn, Ala.)	Plans & Service
Eunice B. Lockhart	Jr. Stenographer	" "
Edward L. Griffin	Agent (F.C.) (College Park, Md.)	Structures

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Separations

Patricia J. Genz	Jr. Clerk-Typist (To Navy Dept.)	Bus. Adm. (Files)
Clarence M. Swanson	Jr. Laborer (Ames, Iowa)	Agr. By-Prod. Lab.
Mackie B. Adams	Unskilled Laborer (Bogalusa, La.)	Agr. Chem. Res. Div.
Hylton R. Brown	Sr. Engr. (To Bur. of Mines, Dept. of Interior)	Chem. Engr. Res.
Stella Louise Abel	Jr. Clerk-Typist (To War Dept.)	Food Res. Div.
James L. Maxon	Skilled Laborer (Winter Haven, Fla.)	" " "
Mrs. Evelyn C. Morton	Jr. Clerk-Stenog. (San Francisco Calif.)	" " "
Howard E. McCorvey, Jr.	Guard (Olustee, Fla.)	Naval Stores
Philip Borkat	Asst. Mech. Engr. (To Bu. Yards & Docks, Navy Dept.)	Plans & Service
William J. Ellison	Asst. Architect (To Constr. Quartermaster Of. War Dept.)	" "
William C. Ferguson	Asst. Architect (To War Dept.)	" "
Curzon L. Kinder	Sr. Arch. Draftsman (To War Dept.)	" "
Wilson Reynolds Rinehart	Asst. Mech. Engr. (To Bu. Yards & Docks, Navy Dept.)	" "
Anna M. Romeo	Jr. Stenographer	" "
Richard H. Rule	Asst. Architect (To War Dept.)	" "
David F. Smith	Prin. Chemist (Peoria, Ill)	North. Reg. Res. Lab.
Marie C. Huber	Jr. Clerk-Stenog.	Reg. Res. Lab. (Adm.)
Mrs. Esther F. Adams	Asst. Clerk-Stenographer	Structures
Mrs. Valora A. Clem	Jr. Typist (Ames, Iowa)	"
Louis C. Knorr	Under Clerk-Typist (Urbana, Ill.)	"

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